

ARKHIPOV, P.G., inzhener

Using high explosives in underground work. Gor. zhur. 122  
no.1:18-22 Ja '48. (MIRA 8:9)

1. Podzemno-ekspluatatsionnoye upravleniye Soyuzvzryvproma  
(Blasting)

ARKHIPOV, P.

Aiming for quantity alone. Mest.prom.i khud.promys. 2 no.1:23 Ja  
'61. (MIRA 14:4)  
(Moscow--Leather industry)

PIMENOV, V.I.; ARKHIPOV, P.I.

Use and efficiency of the method of hot vulcanization in manufacturing  
new kinds of footwear. Leg. prom. 18 no.9:4-7 S '58. (MIRA 11:10)  
(Shoe manufacture) (Vulcanization)

ARKHIPOV, P.I., polkovnik med.sluzhby

Work of the military medical service of a district in fulfilling  
the decree of the Central Committee of the Communist Party of the  
Soviet Union and the Council of Ministers of the U.S.S.R. on  
improving medical services. Voen.-med. zhur. no. 2:12-14 F '61.

(MIRA 14:2)

(MEDICINE, MILITARY) (PUBLIC HEALTH)

PIMENOV, V.I.; ARKHIPOV, P.I.; YERMOLAYEVA, L.G.

Physicomechanical action exerted on felt footwear uppers in the  
process of rubber sole fastening by vulcanization. Nauch.-issl.  
trudy TSNIKP no.32-95-103 '60. (MIRA 15:12)  
(Boots and shoes, Felt) (Vulcanization)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

ARKHIPOV, P.N.

Achievements of our crew. Izebr.v SSSR 2 №.11:48-50 N '57.  
(Shoe industry) (MIRA 10:10)

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CIA-RDP86-00513R000102110014-1"

ARKHIPOV, P.P., inshenor; IVANOV, Ye.D., inshener; KRYLOV, N.V., inshener-  
arkhitektor; NIKANDROV, B.I., inshener-arkhitektor; NOSKOV, B.G.,  
inshener-arkhitektor; RYABTSEV, M.N., vetrach; SOKHMANICHEV, N.S.,  
inshener-arkhitektor; TSIBUL'SKIY, L.A., kandidat sel'skokhozyaystven-  
nykh nauk; PIOTROVSKIY, M.I., inshener, retsensent; VOL'FOVSKAYA, V.N.,  
redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor.

[Handbook on the construction of farm buildings] Spravochnik po sel'sko-  
khoziaistvennomu stroitel'stvu. Moskva, Gos. izd-vo selkhoz. lit-ry.  
Vol. 2. 1952. 579 p.  
(Farm buildings) (Building) (MIRA 8:2)

ARKHIFOV, P. P.

N/5  
723.1  
.A7

Sel'skokhozyaystvennyye proizvodstvennyye zdaniya i sooruzheniya (Agricultural industrial buildings and installations, by) P. P. Arkhipov i N. V. Krylov. Moskva, Sel'khozgiz, 1955.

325 P. Diagrs., Tables.

At head of title: Uchebniki i uchebnyye posobiya dlya sel'skokhozyaystvennykh tekhnikumov.

ARKHANGEL'SKIY, P.Ye., inzhener; ARKHIPOV, P.P., inzhener; VAS'KOV, M.P., agronom; ZHMUDSKIY, D.A., arkhitektor; IVANOV, A.P., arkhitektor; KIBI-REV, S.F., arkhitektor; KRYLOV, N.V., inzhener-arkhitektor; KULAKOV, D.V., arkhitektor; MARTYNOV, P.F., inzhener; NIKIFOROV, V.S., inzhener; NOSKOV, B.G., arkhitektor; PETUKHOV, B.V., kandidat tekhnicheskikh nauk; RUDANOV, M.L., kandidat tekhnicheskikh nauk; RYAZANOV, V.S., kandidat arkhitektury; SOKHRANICHENOV, N.S., inzhener-arkhitektor; TARASOV, D.I., arkhitektor; SHMIDT, N.E., kandidat arkhitektury; KHOMUTOV, Ye.Ye., arkhitektor; VOL'FOVSKAYA, V.N., redaktor; FEDOTOVA, A. F., tekhnicheskiy redaktor.

[Handbook on the construction of farm buildings] Spravochnik po sel'skokhoziaistvennomu stroitel'stvu. Avtorskii kollektiv: P.E. Arkhangel'skiy i dr., avtor-sost. N.V. Krylov. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol. 3 1955. 843 p. (Farm buildings) (MIRA 9:6)

L 09009-67 EWT(m)/EWP(t)/ETI IJP(c) JD/HW  
ACC NR: AP6027786 (N)

SOURCE COUDE: UR/0126/66/022/001/0058/0065

AUTHOR: Palatnik, L. S.; Kosovich, V. M.; Antonova, V. A.; Arkhipov, P. P.

37

ORG: Khar'kov Polytechnic Institute im. V. I. Lenin (Khar'kovskiy politekhnicheskiy institut)

TITLE: Phase composition of cobalt condensates during the initial stage of their formation

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 1, 1966, 58-65

TOPIC TAGS: phase composition, cobalt, metal vapor deposition, crystal structure

ABSTRACT: The published data on the phase composition of Co films obtained by vacuum condensation are highly contradictory; this is apparently associated with the non-uniformity of experimental conditions. Accordingly, the authors performed a systematic investigation of the phase composition of these films as a function of the chief parameters determining the manner of growth of the condensates: 1) substrate temperature  $T_s$ ; 2) condensation rate  $w$ ; 3) degree of vacuum; 4) effective film thickness  $h$ . 99.98% pure Co was condensed on carbon substrates in a vacuum of  $10^{-4}$ - $10^{-5}$  mm Hg at  $w = 1-500 \text{ \AA/min}$  and  $T_s = 20 - 450^\circ\text{C}$ . The resulting Co thin films ( $h = 1-70 \text{ \AA}$ ) were subjected to electron-diffraction analysis. Findings: the following phase transitions are observed with increase in  $h$  at  $T_s = 20-300^\circ\text{C}$ : quasimorphic

Card 1/2

UDC: 539.23:539.27:669.25

L 09009-67

ACC NR: AP6027786

phase  $\rightarrow$  CoO  $\rightarrow$  CoO  $\rightarrow$  Co<sup>h</sup> [hexagonal variety of Co]. The vacuum heating of oxide-containing condensed Co films, at  $\sim 300^\circ\text{C}$ , leads to the reduction of CoO with transition to Co<sup>c</sup> [cubic variety of Co]; this reduction is accompanied by recrystallization. The phase composition of specimens 30-100 Å thick, obtained for the T<sub>s</sub> gradient and  $\omega = 180 \text{ \AA/min}$  undergoes an abrupt change when the substrate temperature is  $\sim 350^\circ\text{C}$ . Below this temperature Co<sup>h</sup> is the predominant phase, while above this temperature Co<sup>c</sup> predominates. When  $\omega = 180 \text{ \AA}$  no oxide formation could be detected by electron-diffraction analysis, regardless of T<sub>s</sub>. Thus it may be concluded that the processes of the formation and reduction of oxides are an essential factor only when  $\omega < 150 \text{ \AA/min}$  at T<sub>s</sub>  $< 300^\circ\text{C}$ . Orig. art. has: 6 figures, 2 tables.

SUB CODE: 11, 20/ SUBM DATE: 19Jul65/ ORIG REF: 007/ OTH REF: 013

Cont 2/2 nst

ARKHIPOV, Petr Stepanovich; PIVKO, Gennadiy Mikhaylovich; MARENKOVA,  
G.I., inzh., red.; KHITROV, P.A., tekhn.red.

[Brief reference book for electricians and wire communication  
technicians of transportation systems] Kratkii spravochnik  
elektromekhanika i montera transportnoi provodnoi sviazi. Moskva,  
Vses.izdatel'sko-poligraf. ob"edinenie M-va putei soobshcheniiia,  
1960. 125 p.

(MIRA 13:6)

(Telephone--Handbooks, manuals, etc.)  
(Telegraph--Handbooks, manuals, etc.)  
(Railroads--Communication systems)

ARKHIPOV, P.S., inzh.; TRAVIN, N.N., inzh.

Economic expediency of the continuous operation of a feed turbopump.  
Elek.sta. 33 no.2:16-20 F '62. (MIRA 15:3)  
(Electric power plants--Equipment and supplies)(Pumping machinery)

PIVKO, G.M.; ARKHIPOV, P.S. [deceased]; MEDVEDNIKOV, M.N., inzh.,  
retsenzent; USTIMENKO, P.I., inzh., retsenzent; KHODOROV,  
L.R., inzh., retsenzent; NOVIKAS, M.N., inzh., red.;  
KHITROV, P.A., tekhn. red.

[Manual on railroad wire communication equipment] Spravochnik  
po apparature transportnoi provodnoi sviazi. Moskva, Trans-  
zhele dorizdat, 1963. 359 p. (MIRA 16:7)  
(Railroads—Communication systems)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

ARKHİPOV, P. V.

MENITSKIY, L.F.; ARKHİPOV, P.V.

Idle run regulator for electric motors of shoe and stitching  
machines. Leg.prom. 14 no.8:50-51 Ag '54. (MLRA 7:8)  
(Shoe machinery) (Electric motors)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

ARKHIPOV, P.Ya.

Machine for cleaning sewage conduits. Vod. i san. tekhn. no.5:  
23-25 Ag. 55. (MLRA 9:2)  
(Sewer pipe)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

98-58-4-12/18

AUTHOR: Arkhipov, P.Ya., Candidate of Technical Sciences; Yavorskaya,  
T.I., Engineer

TITLE: Suction Silt-Condenser (Vsasyvayushchiy sgustitel' pul'py)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 4 pp 47-48 (USSR)

ABSTRACT: Investigation of the process of sand dredging has revealed the possibility of separating part of the indrawn water, rushing into the tube between the edge of the suction nozzle and the ground. The flow of water entering the dredging tube under the suction action of the dredge forms a sort of cylindrical sleeve, entraining at its center the mass of silt. By introducing a thin walled pipe into the suction nozzle, it is possible to transport through this pipe a more-highly-concentrated silt. This interior pipe separates the water surrounding the silt (when it enters the nozzle) from the silt in the center of the flow. To increase the effectiveness of the dredge, the section nozzle can be given the shape of a flange or a funnel as shown in figure 2. It is recommended to use pumps "NF" when working with dredging machines "ME".

AVAILABLE:  
Card 1/1      Library of Congress  
                  1. Dredging machines-Equipment

ARKHIPOV, P.Ya., kand.tekhn.nauk

Deposits in pipes and their removal by the use of pipe cleaners  
equipped with multistage turbines. Trudy DIIT no.27:195-205  
'58. (MIRA 12:1)

(Water pipes--Cleaning) (Turbines)

ARKHPOV, R.G.

USSR/ Physics - Sound

Card 1/1 Pub. 22 - 13/47

Authors : Arkhipov, R. G.

Title : About the absorption of ultra-sound in helium II

Periodical : Dok. AN SSSR 98/5, 747-748, Oct 11, 1954

Abstract : Critical review of the C. E. Chase (1953) report on the absorption of ultra-sound in helium II is presented. The errors made by Chase in formulating his ultra-sound absorption theory, are listed and supported by mathematical formulas. Three references: 1-English and 2-USSR (1950-1953). Graph.

Institution : Academy of Sciences USSR, The S. I. Vavilov Institute of Physical Problems

Presented by: Academician L. D. Landau, May 18, 1954

*Vertes*  
ARKHIPOV, R. G., Cand Phys-Math Sci -- (diss) "Problems of  
the Theory of Hyperviscosity." Mos, [Publication of Acad Sci  
USSR], 1957. 6 pp (Acad Sci USSR, Inst of Phys Problems),  
130 copies (KL, 52-57, 102)

- 2 -

Arkhipov

ARKHPOV, R.G. [translator]; GOR'KOV, L.P. [translator]; DZYALOSHINSKIY,  
I.Ie. [translator]; PITAYEVSKIY, L.P. [translator]; KHALATNIKOV,  
I.M., red.; EKKERMAN, I.M., red.; KHOMYAKOV, A.D., tekhn.red.

[New properties of the symmetry of elementary particles.  
Translated from the English] Novye svoistva simmetrii elemen-  
tarnykh chasits; sbornik statei. Perevod s angliiskogo  
R.G. Arkhipova i dr. Moskva, Izd-vo inostr.lit-ry, 1957. 97 p.  
(MIRA 11:1)

(Particles, Elementary)

ARKHIPOV, R.G.

Flow instability of a superfluid film [with summary in English].  
Zhur. eksp. i teor. fiz. 33 no.1:116-123 Jl '57. (MLRA 10:9)

1. Institut fizicheskikh problem Akademii nauk SSSR.  
(Gases--Liquefaction) (Helium)

ARKHIPOV, R.G.

56-2-12/47

AUTHOR:

Arkhipov, R. G.,

TITLE:

On the Behaviour of Particles of Small Effective Mass in Superfluid Helium (Povedeniye chastits maloy effektivnoy massy v sverkhtekuchem gelii)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr. 2(8),  
pp. 397-401, (USSR)

ABSTRACT:

The present paper solves the kinetic equation for the interaction of electrons with thermal excitations in Helium II according to the method of Fokker-Planck. The mobility of charged particles in an electrical field can be observed experimentally. In the case of certain reasonable field strengths and free mean paths the values expected for the velocity of the systematic motion of the electrons are much larger than the velocities of motion of the normal component. In this case the gas of the excitations can be considered to be rest and in thermal equilibrium. The author tries to set up the distribution function of the electrons in the form of series of Legendre polynomials and limits himself to the zero and first order term of the expansion  $f = f_0 + f_1 \cos \delta + \dots$  denoting the angle between the momentum of the electron and the direction of the electric field. The equations for  $f_0$  and  $f_1$  are given. The impulse integral is in the form of a divergence in the space of the absolute values of the momenta. The probability of the emission of a photon is ascertained with the usual formulas

Card 1/2

ARKHIPOV, R.G.

AUTHORS: Arkhipov, R.G., Khalatnikov, I.M. 56-3-30/59  
TITLE: Propagation of Sound at the Boundary Between Two Superfluid Phases (Rasprostraneniye zvuka cherez granitsu mezhdu dvumya sverkhtekuchimi fazami)  
PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3,  
pp. 758-764 (USSR)  
ABSTRACT: The passage of the first and the second sound at the boundary between two "superfluid" liquids is discussed theoretically. It could be proved that a conversion from one into the other is possible. Also in this case it is called conversion. The corresponding equations are given for the energy flow of the reflected, deflected, and converted waves, namely for the first and the second sound:  
1) Both liquids are "superfluid". Concentration values differ  $(\Delta c)^2 \gg 1$   
2) Both liquids are "superfluid". Concentration values are nearly equal.  $(\Delta c)^2 \ll 1$ .  
3) The second liquid is not "superfluid"  
4) The first liquid is not "superfluid".  
There are 5 Slavic references.

Card 1/2

Propagation of Sound at the Boundary Between two Superfluid Phases. 56-3-30/59

ASSOCIATION: Institute for Physical Problems AN USSR (Institut fizicheskikh problem Akademii nauk SSSR)

SUBMITTED: March 20, 1957.

AVAILABLE: Library of Congress

Card 2/2

56-3-54/59

AUTHOR: Arkhipov, R.G.

TITLE: On the Thermodynamical Functions of Superfluid Helium Films  
(O termodinamicheskikh funktsiyakh sverkhtekushchikh plenok gelya) (Letter to the Editor)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3 (9),  
pp. 822 - 823 (USSR)

ABSTRACT: The computation of the thermodynamical functions of superliquid helium from the spectrum of the excitation of the phonon-roton type proposed by Landau agrees, as is known, excellently with experimental data. In liquid helium with a free surface, however, there also exists a branch of the energy spectrum which is connected with the existence of surface waves. Its contribution to the thermodynamical functions is proportional to the surface area of the free surface and can therefore play a part only in the case of very thin films. For the spectrum of the surface oscillations  $\omega^2 = \frac{\beta_{\text{ak}}}{l^4} + \frac{\alpha k^3}{\vartheta}$  the  $kl$  is true. Here  $\omega$  de-  
notes the frequency,  $k$  - the wave vector,  $l$  - the thickness of the film,  $\alpha \sim 0,35$  - the surface tension,  $\vartheta \sim 0,145$  - the

Card 1/2

56-3-54/59

## On the Thermodynamical Functions of Superfluid Helium Films

density,  $a \sim 8 \cdot 10^{-15}$  - a constant connected with Van der Waals' interaction of the film with the wall. At  $1 \gg a^{1/4}(\vartheta/\alpha)^{1/12}$   $(\hbar/\alpha T)^{1/3} \sim 6 \cdot 10^{-8}$  cm the formula  $\omega^2 = \alpha k^3/\vartheta$  is true, with the help of which the free energy and thermal capacity connected with the surface is easily obtainable. Next, the author investigates in what case the expressions obtained here are of the same order of magnitude as the phonon share of the volume thermal capacity. Also the surface oscillations have to furnish a contribution to the normal density of the superliquid helium. The yield of the surface in the normal density is of the same order of magnitude as the yield of phonons, if  $1 \sim 6 \cdot 10^{-6} T^{-7/3}$  is true. There are 4 references, 2 of which are Slavic.

ASSOCIATION: Institute for Physical Problems AN USSR ( Institut fizicheskikh problem Akademii nauk SSSR)

SUBMITTED: June 21, 1957

AVAILABLE: Library of Congress

Card 2/2

AUTHOR ARKHIPOV, R.G. 56-7-17/66  
 TITLE Flow Instability of a Superfluid Film.  
 (Neustoychivost' techeniya sverkhtekushchey plenki.-  
 Russian)  
 PERIODICAL Zhurnal Eksperim. i Teoret. Fiziki 1957, Vol 33, Nr 7,  
 pp 116-123 (USSR).  
 ABSTRACT The author here investigates an incompressible supra-  
 conductive liquid which forms a layer of the thickness  $h$   
 on the surface of a solid wall. The author selects  
 $\vec{v}_s^0 = \vec{U} = \text{const}$ ,  $\vec{v}_n^0 = 0$  as perturbed motion; the first  
 approximation is set up in form of a travelling wave  
 $e^{ikz - i\omega t}$ . The  $x$ -axis is not vertical to the surface and  
 $x = -h$  is looked upon as a coordinate of the boundary  
 between the liquid and the solid body. The equations for  
 the normal and the supraliquid components can be written  
 down separately in which case a linearized equation  
 suffices for the normal component. The system of equations  
 of the supraliquid hydrodynamic can be written down in  
 the form  

$$\vec{v}_s = \nabla \psi, \Delta \psi = 0, \partial \vec{v}_n / \partial t = \nu \Delta \vec{v}_n - (1/\rho_n) \nabla p_n$$

$$\text{div } \vec{v}_n = 0$$

CARD 1/3

Flow Instability of a Superfluid Film.

56-7-17/66

Here  $p = p_n + p_s$  denote the total pressure and

$p_s = - \rho_s \frac{\partial \varphi}{\partial t} - \rho_s v_s^2/2$ ,  $\eta = \rho_n v$  - the viscosity of the helium. Next, the boundary conditions and the solutions are given. The quantities

$$\{ = b e^{i(kz - \omega t)}$$

describe the oscillations of the boundary. Also the system of the boundary conditions for the free surface (for  $x = 0$ ) is written down. A system of 4 homogeneous linear equations is obtained; the equation resulting from the solution of the corresponding determinant is also written down. Even if only one of the roots  $\omega$  of this equation has a positive imaginary part, the motion will be unstable. For the complete solution of the problem two equations for the critical consumption and the equation for the shape of the film in the field of gravity have to be solved and the effects exercised on it by VAN DER WAAL'S forces, as well as the forces of the

CARD 2/3

S/131/62/004/005/001/055  
B102/B104

AUTHORS: Alekseyev, Ye. S., and Arkhipov, R. G.

TITLE: Electron transitions in cesium and rubidium under pressure

PUBLIODICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1077 - 1081

TEXT: Electron transitions in Cs and Rb at pressures of some ten thousand atmospheres were calculated. At these pressures the metal density is almost doubled, which means that the atomic shells are strongly deformed. The statistical model is well suited for the description of multi-electron atoms in this case. The wave functions of the valence electrons can be represented in the semi-classical approximation. The special case of 5d and 6s shells was treated; the statistical Thomas - Fermi potential of the Higner - Seitz problem was used to determine  $E(x)$  ( $x = z^{1/3}me^2r/0.865h^2$ ). The lower levels for Cs were found to overlap when  $x = 19$  (or  $r = 4.43$  atomic units) corresponding to  $\rho = 4.1 \text{ g/cm}^3$ . This result agrees with that of Sternheimer (Phys. Rev. 78, 235, 1950) and with the experiments of Bridgeman. The 4d shell for Rb can be calculated only for  $x < 10$  as for Card 1/2

Electron transitions ...

S/181/62/004/005/001/055  
B102/B104

higher values the particle enters the region where the classical motion is forbidden. In this case the wave equation with the appropriate boundary conditions must be solved exactly. In the "forbidden" region the energy level practically coincides with the 4d potential curve and intersects the 5s level at  $x = 13$  ( $r = 3.46$  atomic units) corresponding to a density  $\rho = 5.6 \text{ g/cm}^3$ . As no experimental data were available, the pressure necessary for phase transition in Rb was determined by extrapolation and found to be  $200,000 \text{ kg/cm}^2$ . There are 2 figures.

ASSOCIATION: Institut fiziki vysokikh davleniy AN SSSR Moskva (Institute of the Physics of High Pressures AS USSR, Moscow)

SUBMITTED: October 12, 1961

Card 2/2

S/056/62/043/001/053/056  
B102/B104

AUTHOR: Arkhipov, R. G.

TITLE: An inequality for the effective mass in metals with low carrier concentration

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 1(7), 1962, 349-351

TEXT: The radius  $r_D$  of the Debye-Hückel shielding cloud of the charge carriers is related to the carrier concentration  $N$  per  $\text{cm}^3$  by  $N^{-1/3} \sim r_D$  as well as to the chemical potential by  $r_D^{-2} \sim e^2 \partial N / \partial \mu$ . Since  $\mu \sim \chi^2 N^{2/3} / m^*$  ( $m^*$  - effective carrier mass),  $\partial \mu / \partial N \sim \chi^2 / m^* N^{1/3}$  and the condition for a substance having metallic conductivity is  $N^{1/3} \gtrsim m^* e^2 / \chi^2$ . With given  $N$ ,  $m^*$  will satisfy the inequality  $m^* \lesssim (\chi/e)^2 N^{1/3}$ . If  $m$  is the mass of the free electron, then  $m^*/m \lesssim n^{1/3}$  where  $n = Na^3$  is the carrier concentration per Card 1/2

L 13633-63 EPR/EWT(1)/EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pg-4/

Pr-4/ WH/WH/IJP(C)/X

ACCESSION NR: AP3003127

8/0056/63/044/006/1964/1973

72

70

AUTHOR: Arkhipov, R. G., Kochin, V. V., Likhter, A. I., Pospelov, Yu. A.

TITLE: Galvanomagnetic effects in graphite and the deformation of the electron spectrum of graphite under pressure

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 1964-1973

TOPIC TAGS: Galvanomagnetic effects in graphite, electron spectrum deformation, magnetoresistance high pressures, temperature dependence of resistance, Hall coefficient

ABSTRACT: A theory of the galvanomagnetic properties of graphite is developed and formulas are derived for the limiting case of high temperatures, using the relaxation-time approximation and the energy spectrum of graphite obtained by Slonczewski and Weiss (Phys. Rev. 109, 272, 1958). The galvanomagnetic coefficients of graphite were also measured under pressures up to 10000 atmospheres and at temperatures up to + 90° C, using a method similar to that described by Likhter and D'yakonova (FTT, v. 1, 95, 1959 and PTE, no 2, 127,

Cord 1/3

L 13633-63  
ACCESSION NR: AP3003127

1960). At the same time, the temperature dependence of the coefficients was obtained up to +150°C at atmospheric pressure. The theory makes it possible to separate the effects due to the lattice from those due to the conduction electrons, and the measurement of the galvanomagnetic effect gives satisfactory accuracy and is technically much simpler than the use of other standard methods of determining the energy spectrum (cyclotron resonance, de Haas -- van Alphen effect, absorption of ultrasound, etc.). An analysis of the experimental data on the temperature dependence of the resistance to +150°C, yields a simple dependence of the relaxation time on the temperature and on the quasi-momentum. A combined quantity ( $Q$ ) is defined and is found to be independent of the temperature up to pressures of 10000 atmospheres, so that it can be used to find the dependence of the energy-spectrum parameters on the distance between layers, using measurements of the resistance and galvanomagnetic coefficients as functions of pressure and temperature: this permits determination of the deformation of the energy spectrum of graphite under pressure. At 10000 atmospheres, the total number of carriers in graphite increases by 23% and the relaxation time increases by 3%. "In conclusion it is a pleasure to thank L. F. Vereshchagin for continuous interest and useful discussion." Orig. art. has: 7 figures, 25 formulas, and 1 table.

Card 2/82

Inst. of High-Pressure Physics

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

TOPIC TAGS: seismology reflected seismic wave refracted seismic wave.

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CIA-RDP86-00513R000102110014-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

(High Pressure Physics Institute, Academy of Sciences, SSSR)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

L15660-66 EWT(m)/ETC(F)/ENG(m)/EWP(t) IJP(c) RDW/JD  
ACC NR: AP6000220 SOURCE CODE: UR/0056/65/049/005/1601/1604

AUTHOR: Arkhipov, R. G.

ORG: Institute of High Pressure Physics, Academy of Sciences SSSR  
(Institut fiziki vysokikh davlenii Akademii nauk SSSR)

TITLE: Possible existence of a critical point in first-order electronic transitions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49,  
no. 5, 1965, 1601-1604

TOPIC TAGS: cesium, cerium, phase diagram, phase transition,  
electron transition, metal property, dielectric property, critical point

ABSTRACT: The possibility of a change induced in the electronic states, either by a first-order transition or continuously, is established on the basis of qualitative considerations. The critical phenomena associated with the change in the electronic states in a metal and a metal-dielectric transition are discussed. The behavior

Cord i/2

L 15660-66

ACC NR: AP6000220

of the thermodynamic quantities near the critical point is discussed in light of these deductions, and some existing experimental data on the phase diagram of cesium and of cerium are discussed from the point of view of the analysis. Author thanks Ya. B. Zel'dovich for a discussion, I. M. Lifshits and L. F. Vereshchagin for useful comments, and I. K. Kikoin for communicating results of his work prior to publication. Orig. art. has: 3 figures.

SUB CODE: 20,11/ SUBM DATE: 09Jun65/ ORIG REF: 005/ OTH REF: 003

Card 2/2

ARKHIPOV, S. A., Cand Geol-Min Sci -- (diss) "Stratigraphy of Quaternary Deposits, Problems of Nootectonics and Paleoogeography of the Basin of the Middle Course of the Yenisey River." Mos, 1957. 16 pp (Acad Sci USSR, Geological Inst), 130 copies (KL, 49-57, 111)

- 15 -

ARKHIPOV, S.A.; ZUBAKOV, V.A.; LAVRUSHIN, Yu.A.

Glacial-aqueous deposits in the Yenisey region of the West Siberian  
Lowland. Dokl.AN SSSR 112 no.1:107-108 Ja '57. (MLRA 10:2)

1. Predstavleno akademikom N.S.Shatskim.  
(Siberia, Western--Geology, Stratigraphic)

DATA SHEET

SUBJECT: USSR/Geology 10-6-6/13

AUTHOR: Arkhipov, S.A. and Lavrushin, Yu.A.

TITLE: On the Yenisey River Drainage During the Maximum and Zyryansk Glaciations (K voprosu o stoke reki Yeniseya v period maksimal'nogo i Zyryanskogo oledeneniya)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957,  
# 6, p 91-101 (USSR)

ABSTRACT: Up to the present time, the problem remains unsolved concerning the drainage of the west Siberian rivers flowing northward during the Maximum and Zyryansk glaciations. Some authors hold that these rivers flowed in south-west direction into the Aralo-Caspian region because of the damming by the glaciers, others hold that they flowed into the basin of the Taza River.  
  
The authors of subject paper are of the opinion that the direction of the Yenisey flow did not differ essentially from the contemporary direction, but considerable variations in the annual water balance took place during the glaciation epochs. The discharge of the Yenisey itself and of its tributaries

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10-6-6/13

TITLE: On the Yenisey River Drainage During the Maximum and Zyryansk Glaciations (K voprosu o stoke reki Yeniseya v period maksimal'nogo i Zyryanskogo oledeneniy)

depend on the thickness and the completeness of thawing of the snow cover. During glaciations periods, the thawing of seasonal snow must have been less at that time.

Analyzing the geological and paleontological data available, the authors propose paleogeographic concepts which confirm their views, according to which the river drainage stopped almost completely during glaciation peaks. During the interglacial stages and post-glacial time, the Yenisey continued its northbound flow.

The article contains 4 paleogeographic schemes, 1 geologic cross section and 3 tables.

19 Slavic references are cited.

INSTITUTION: Geological Institute of the USSR Academy of Sciences in Moskva  
PRESENTED BY:  
SUBMITTED: On 16 January 1957  
AVAILABLE: At the Library of Congress  
Card 2/2

AUTHOR:

Arkhipov, S. A.

20-1-33/44

TITLE:

On the Stratigraphy of Quaternary Deposits in the Middle-Yenissei Basin of the West-Siberian Lowland (K stratigrafii chetvertichnykh otlozheniy Priyeniseyskoy chasti Zapadno-Sibirskej nizmennosti (Basseyn srednego techeniya r. Yeniseya)).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 1, pp. 123-125 (USSR).

ABSTRACT:

The stratigraphic subdivisions and the lower boundary of the anthropogenic in west Siberia are usually drawn on the basis of an analogy with the Russian Plane, i. e. after the first post-pliocenic deterioration of climate and after the subsequent several supersessions of glacials by interglacials. In West Siberia, however, this meets with difficulties, as in the inter-moraine-deposits all floras are represented by a type complex of a moderately cool or cold climate, and lime, oak, elm, hazel etc, are completely absent here. Further the glaciations of West Siberia developed on a background of very energetic block motions which were superposed by eustatic and isostatic variations. The tectonic motions favored, on the basis of a general cooling of climate, the glaciation of the mountains. The same motions led to extensive boreal transgressions. The stratigraphic

Card 1/4

On the Stratigraphy of Quaternary Deposits in the Middle-Yenissei Basin of the West-Siberian Lowland. 20-1-33/44

scheme suggested here was constructed under consideration of the above-described peculiarities of the anthropogenic history in agreement with Gromov's nomenclature. The sediments of the eo- and lower pliocene are bound to old erosion-tectonic depressions. The former contain a large number of destruction products of the Trapp rocks of the Middle-Siberian highland, the latter are presumably constructed of marine, fine-cleaned clays with calcareous concretions. Above they go over to a package, genetically connected with them, of the Turukhan horizon with splinters of a marine fauna. Large tectonic motions are determined on the boundary and in the first half of the anthropogenic. The eo-pleistocene deposits might be classified with the lower pre-glacial-complex. The lower pleistocene deposits, however, and the Turukhanian ones - with the early Quaternary marine transgression. A very problematic old glaciation corresponds to the Lower Pleistocene. As sharp variations of climate were, however, not determined in the pre-samarian era, the moraine-like deposits in the lower-pleistocene mass are either not of glacial origin at all or they possibly correspond to the very first stage of maximum glaciation. Two stages of maximum glaciation and the interstadium separating them belong to the Middle Pleistocene. The glacial complex

Card 2/l

On the Stratigraphy of Quaternary Deposits in the Middle-Yenisei 20-1-33/44  
Basin of the West-Siberian Lowland.

of the largest Samar glaciation is very widely spread in the region investigated (35-45 m thick mass). The mass-samburg introstadium sandy-clayey deposits are in the domain of erosion-tectonic depression mostly spread as alluvial-lake-formations. Toward the north of West Siberia they go over into marine rocks. Continental deposits are characterized by wood-tundra-flora which consists of brush and grasses. The Taz-stadium of the maximum glaciation developed synchronous with the Sanchugov transgression. The spreading of the sea was on the whole due to the tectonic deflection of the region under review. The glacial-marine deposits contain a highly-arctic fauna. The deposits of the regressive phase of the Sanchugov sea correspond to the time of formation of the IV coastal terrace of the Yenisei. The Upper Pleistocene begins with the Kazantsev interglacial during which a taiga of dark coniferous forest developed. The fauna was thermophile. The Zyryan glaciation in the river basin of the Turuk fixed by a fresh relief of hill-chains, consisting of fluvioglacial-glacial sands etc. In places quite gradual transitions in Kazantsey deposits take place. In the late post-glacial period the II. and I. coastal terrace on the Yenisei and its tributaries formed. Here the deposits contain spore-pollen-spectra which have a wood-tundra and

Card 3/4

On the Stratigraphy of Quaternary Deposits in the Middle-Yenisei Basin of the West-Siberian Lowland. 201-33/44

a tundra character, with a content of tree-pollen from 8 to 65 %. The Upper Pleistocene is characterized by a mammoth fauna. This fauna dies out in the Holocene, when the climate becomes considerably warmer and the wood advances farther to the north. There are 12 Slavic references.

PRESENTED: By N. M. Strakhov, Academician, March 12, 1957.

SUBMITTED: March 11, 1957.

AVAILABLE: Library of Congress.

Card 4/4

SOV/5-58-6-10/13

AUTHORS: Arkhipov, S.A. and Lavrushin, Yu. A.

TITLE: Some Peculiarities of the Structure of River Bank Zones Between the Highest and Lowest Water Levels in the Basin of the Middle and Lower course of the Yenisey River (Nekotoryye osobennosti stroyeniya bichevnikov basseyna srednego i nizhnego techeniya Yeniseya).

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiy, 1958, Nr 6, p 127-136 (USSR)

ABSTRACT: The authors describe different aspects of the bank zones between the highest and lowest water levels (bichevniki) in the basin of the middle and lower course of the Yenisey river

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SOV/5-58-6-10/13

Some Peculiarities of the Structure of River Bank Zones  
Between the Highest and Lowest Water Levels in the Basin  
of the Middle and Lower Parts of the Yenisey River

and explain that these zones were formed by  
the combined action of water and ice flow in  
the spring. There are 5 photos, 2 profiles,  
1 diagram and 12 references.

Card 2/2

ARKHIPOV, S.A.

Lithological and facial characteristics of Khvalynian chocolate  
clays and factors governing their formation. Biul. Kom. chetv.  
per. no.22:63-72 '58. (MIRR 11:11)  
(Caspian Sea--Clay)

ARKHIPOV, S.A.; LAVRUSHIN, Yu.A.

Activity of the Quaternary stratigraphy section of the interdepartmental conference on unified stratigraphic plans of Siberia. Biul. Kom. chetv. per. no.22:140-142 '58. (MIRA 11:11)  
(Siberia--Geology, Stratigraphic)

AUTHOR:

Arkhipov, S.A.

SOV/5-33-1-9/25

TITLE:

Traces of the Akchagyl Transgression on the Right Bank of  
the Volga River Between the Town of Khvalynsk and the Aleks-  
eyevka Village (O siedakh akchagyl'skoy transgressii na  
pravoberezh'ye r. Volgi mezhdu g. Khvalynskom i d Aleksey-  
evkoy)

PERIODICAL:

Byulleten' Moskovskogo obshchestva ispytateley prirody,  
Otdel geologicheskiy, 1958, Vol 33, Nr 1, pp. 91-96 (USSR)

ABSTRACT:

The right bank of the Volga river between the towns of Khvalynsk and Alekseyevka forms the eastern boundary of the Volga elevation. The bank is formed of a steep drop of the plateau, 140 m high and about 1 km wide, and of a flat slope 3.5 to 4 km wide. The eroded terraces are located on the beginning and on the end of the flat slope. The upper terrace, 0.5 to 2 km wide, and slightly inclined to the east, is cut in the Albian argiles, sandstones and sands and is partly covered with Akchagyl' (Pliocene epoch) conglomerates. The lower terrace, 0.3-0.5 km wide, is cut in the Neocomian and partly Aptian argiles on which the Akchagyl' conglomerates are deposited. The residual mountains are formed of rocks of the lower Cretaceous period and also covered with Akchagyl' deposits. The whole profile was formed during the

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BOV/5-33-1-9/25  
Traces of the Akchagyl Transgression on the Right Bank of the Volga River  
Between the Town of Khvalynsk and the Aleksayevka Village

transgression and ensuing regression of the Akchagyl sea. The upper terraces and the higher mountains were formed when this sea was at its highest level, while the lower terrace and mountains were formed during the regression. The abrasive action of the Akchagyl sea wore away the eastern part of the plateau, from which only residual mountains remained. The steep drop of the plateau was also formed at the time of the highest transgression of the sea; it was then a steep sea coast intensively eroded by the surf. The composition of the Akchagyl deposits is given. The following geologists are mentioned by the author: N.I. Andrusov, A.N. Mazarovich, Ye.V. Milanovskiy, R.A. Mezharovskiy, M.M. Zhukov, A.I. Kotova and A.V. Vostryakov. There is 1 cross-section and 9 Soviet references.

Card 2/2

AUTHOR: Arkhipov, S.A. SOV/11-59-1-4/16

TITLE: On the Question of the Occurrence of Glacial-Marine Deposits in the Yenisey Region of the West-Siberian Lowland (K voprosu o sushchestvovanii gleyatsial'no-morskikh otlozheniy v Pri-yeniseyskom rayone Zapadno-Sibirs'koy nizmennosti)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 1, pp 36-44 (USSR)

ABSTRACT: In the light of the latest exploratory surveys, the occurrence of the glacial-marine deposits in the Yenisey region of the West-Siberian Lowland is firmly established. Fossilized fauna, and the character of the rocks of the Quaternary period, in which these fossils were found, proved that these rocks were formed as a result of the concentrated action of the transgressing or regressing sea, and of numerous glaciers formed in the region during the glaciation periods. At the same time, tectonic movements caused many transformations of the whole coastal line of the region. The author gives a detailed stratigraphic description of the region. The following geologists are mentioned by the author: N.A. Kulik, I.I. Krasnov, S.A. Yakovlev, V.N. Saks, G.D. Maslov, A.V. Kulikov, S.L. Troitskiy, N.N. Urvantsev, A.I. Popov, V.A. Zubakov, D.V.

Card 1/2

On the Question of the Occurrence of Glacial-Marine Deposits in the Yenisey  
Region of the West-Siberian Lowland SOV/11-59-1-4/16

Semevskiy, Yu.A. Lavrushin, M.A. Lavrova, N.G. Zaikina, and  
G.I. Lazukov. There is 1 table, 1 set of profiles and 13  
Soviet references.

ASSOCIATION: Geologicheskiy Institute AN SSSR (The Geological Institute  
of the AS USSR) Moscow

SUBMITTED: October 25, 1957

Card 2/2

ARKHPOV, S.A.

Quaternary sediments in the western margin of the Siberian Platform  
within the area of the Yenisey-Lower Tunguska-Bakhta interfluve,  
their genesis and stratigraphic position. Trudy GIN no.32:97-114  
'59. (MIRA 13:12)

(Siberian Platform--Geology, Stratigraphic)

GOLUBEVA, L.B.; GITERMAN, R.Ye.; KORENEVA, Ye.V.; MATVEYEVA, O.V.;  
ARKHIPOV, S.A., ovt.red.; GALUSHKO, Ya.A., red.izd-va;  
GUSEVA, A.P., tekhn.red.

[Spore-pollen spectra of Quaternary sediments in Western  
and central Siberia and their stratigraphic importance]  
Sporovo-pyl'tsevye spektry chetvertichnykh otlozhenii  
zapadnoi i tsentral'noi Sibiri i ikh stratigraficheskoe  
znachenie. Moskva, Izd-vo Akad.nauk.SSSR, 1960. 114p.  
(Akademija nauk SSSR Geologicheskii institut. Trudy, no.31)  
(MIRA 13:2)

(Siberia--Palynology)

ARKHIPOV, Stanislav Anatol'yevich; GROMOV, V.I., otv.red.; GALUSHKO, Ya.A.,  
red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Quaternary stratigraphy, neotectonics, and paleogeography of  
the central Yenisey Valley] Stratigrafiia chetvertichnykh  
otlozhenii, voprosy neotektoniki i paleogeografii basseina sred-  
nego techeniya Eniseia. Moskva, Izd-vo Akad.nauk SSSR, 1960.  
170p. (Akademija nauk SSSR. Geologicheskii institut. Trudy, no.30.)  
(Yenisey Valley--Geology) (MIRA 13:3)

ARKHIPOV, S.A.

Material on the study of recent tectonic movements in the  
Yenisey Valley portion of the West Siberian Plain (lower and  
middle Yenisey Valley). Trudy SNIIGGIMS no.9:97-110 '60.  
(MIRA 14:7)  
(Yenisey Valley--Geology, Structural)

ARKHIPOV, S.A.; KORENEVA, Ye.V.; LAVRUSHIN, Yu.A.

Quaternary stratigraphy of the Yenisey Valley between the Bakhta and  
Turukhan estuaries. Trudy GIN no.26:248-280 '60. (MIRA 13:12)  
(Yenisey Valley—Geology, Stratigraphic)

ARKHIPOV, S.A.; ALESHINSKAYA, Z.V.

Recent faunal and floral finds in the Taz strata of the  
Yenisey Valley between the Igarka and Podkamennaya Tunguska  
Rivers. Dokl.AN SSSR 133 no.4:901-904 Ag '60.  
(MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.  
Lomonosova. Predstavлено акад. A.L.Yanshinym.  
(Yenisey Valley--Paleontology, Stratigraphic)

ARKHIPOV, S.A.; MATVEYEVA, O.V.

Spore and pollen spectra of Pre-Samarian deposits of the Anthropogen  
in the glaciation zone of the West Siberian Lowland adjoining the  
Yenisey River. Dokl. AN SSSR 135 no.6:1453-1456 D '60.

(MIRA 13:12)

1. Geologicheskiy institut Akademii nauk SSSR. Predstavлено  
академиком V.N. Sukachevym.  
(Sarchikha Valley---Paleobotany, Stratigraphic)

ARKHIPOV, S.A.

Role of recent tectonic movements in the formation of the relief  
and Quaternary sheath of Siberia in the middle and lower Yenisey  
Basin. Trudy SNIIGGIMS no.7:116-125 '61. (MIRA 16:7)

(Yenisey Valley--Geology, Structural)

ARKHIPOV, S.A.; KINK, Kh.A.

Marginal zone of the Samarovo glaciation in the Yenisey Valley of  
the West Siberian Plain. Trudy Inst. geol. i geofiz. Sib. otd. AN  
SSSR no.27:72-89 '62.  
(MIRA 17:11)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

ARKHIFOV, S.A.; MATVEYeva, O.V.

Quaternary pre-Samarovo series of the southern margin of the  
Yenisey Depression. Trudy Inst. geol. i geofiz. Sib. otd. AN  
SSSR no.25:5-22 '64.  
(MIRA 17:10)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

ARKHIPOV, S.A.

Problem of the correlation of alluvial and glacial sediments in  
the West Siberian Plain. Trudy Inst. geol. i geofiz. Sib. otd.  
AN SSSR no.44:11-55 '64. (MIRA 17:11)

ARKHIPOV, S.A.; MATVEYEEVA, O.V.

Spore-pollen spectra and some problems in the stratigraphy of  
Quaternary marine sediments in the lower reaches of the Yenisey.  
Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.44:225-242 '64.  
(MIRA 17:11)

ARKHIPOV, Stanislav Anatol'yevich; MATVEYEVA, Ol'ga Vladimirovna; PUMINOV,  
A.P., kand. geol.-mineralog. nauk, otd. red.; SNITSARENKO, A.A.,  
red.

[Quaternary of the southern margin of the Yenisey Depression.]  
Antropogen iuzhnoi okrainy Eniseiskoi depresii. Novosibirsk,  
1964. 127 p. (Akademija nauk SSSR. Sibirskoe otdelenie. Insti-  
tut geologii i geofiziki. Trudy, no.29)

(MIRA 17:12)  
l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR  
(for Puminov).

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

VOLKOVA, V.S.; ARKHINOV, S.A.

All-Union Conference on the Study of the Quaternary Period.  
Geol. i geofiz. no.12:145-147 '64.  
(MIRA 18+6)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

SAKS, V.N., glav. red.; ~~AKHIEZOV, S.A.~~, zam. glav. red.; BISKE, S.F., red.; VIDOVIN, V.V., red.; VOLKOVA, V.S., red.; GROMOV, V.I., red.; IVANOVA, I.K., red.; LAVRENT'YEV, A.I. red.; MARTYNOV, V.A., red.; NIKOLAYEV, N.I., red.; STRELKOV, S.A., red.; TROITSKIY, S.L., red.; CHOCHIA, N.G., red.; SHANTSER, Ye.V., red.; SHATSKIY, S.B., red.

[Basic problems in the study of the Quaternary period; for the 7th Congress of INQUA, U.S.A., 1965] Osnovnye problemy izuchenija chetvertichnogo perioda; k VII Kongressu INQUA (SShA, 1965). Moskva, Nauka, 1965. 495 p. (MIRA 18:9)

1. Akademija nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki. 2. Chlen-korrespondent AN SSSR (for Saks).

ARKHIPOV, S.M.; SHISHENKOVA, I.A.

Improving the technology and apparatus for the production of antimony  
compounds of reactive grade. Prom.khim. reak. i osobo chist.vesch. no.  
2:31-37 '63. (MIRA 17:2)

L 35064-65 ENT(r)/ENP(t)/EWF(r) IJ(c) JS J.  
ACCESSION NR: AP5008518

5/0/86/65/000/006/0019/0019

15  
B

AUTHOR: Vulikh, A. I.; Arkhipov, S. M.; Sidorova, L. G.

TITLE: A method for producing bromides and iodides of metalloids and metals.

Опубл. в журн. "Советский изобретатель и товарный знак", № 6, 1965, 19

TOPIC TAGS: reducing agent, cesium inorganic compound, tellurium compound, bismuth

ABSTRACT: This Author's Certificate introduces a method for producing bromides and iodides of metalloids and metals.

AUTHOR: ARKhipov, S. M.

TITLE: Preparation of lithium aluminum hydride in an ether-tetrahydrofuran

SOURCE: JOURNAL OF POLYMER SCIENCE: PART A: POLYMERS

1964, 12, 1

Chemical Abstracts Reference Number: 100-10-0

Chemical Abstracts Reference Number: 100-10-0

Filtrate. A 75% pure LiAlH<sub>4</sub> with a yield of 80.7% was obtained by evaporation of the procedure. Orig. art. has 2 tables.

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

L-25788

ASSOCIATION NR. A1447788

ASSOCIATION name

SUBMITTED BY NAME: [REDACTED]

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

ARKHIPOV, S.M.; KOMISSAROVA, P.D.; DRUZ', N.A.

Some properties of cesium dichromate. Zhur. neorg. khim. 9  
no.2:498-499 F'64.  
(MIRA 17:2)

ARKHIPOV, S. N.

PA 30T74

USSR/Radar  
Radar Equipment

Jun 1946

"Radar in Warfare," Engr Rear Admiral, S. N. Arkhipov,  
16 pp

"Morskoy Sbornik" No 6

Short account of the development of radar and the use  
to which the armed forces of the United States and  
England put it. Discusses such variations of radar  
as the PPI, IFF, GCA, AI and GL. Also short discus-  
sion of the use of radar by bombers for the purpose  
of target location through heavy overcast.

30T74

AKHIEPOV, S. N.

"Lookouts and intercom. installations aboard a warship" (Nablyudenie i svyaz' na voennom Korable. Chetvertoe izdanie, pererabotannoe i dopolnennoe.) Moscow: Voennoe izdat. Minst. Oborony Soyuza SSR., 1953, 112 pp. illus.; photos.; diagrs.

ARKHPOV, S. N. Engr-vice-Adm

Author of article, "From Kronstadt to Sevastopol'," concerning the voyage of the battleship Parizhskaya Kommuna and the cruiser Profintern from Kronstadt to Sevastopol' in the winter of 1922. Sovetskiy Moryak, Moscow, No 2, 1955.

SO: Sum 531, 8 June 55

ARKHIPOV, S.T.

Standardize requirements regarding surrounding conditions  
for the operation of measuring instruments. Standartizatsiia  
29 no.10:62-63 O '65. (MIRA 18:12)

1. Nachal'nik otdela standartizatsii Kazanskogo zavoda  
"Teplokontrol'".

ARKHIPOV, S.V.

Use of PED-АКХиМ-54M electric drainage detectors. Газ.пром.  
5 no.3:31-32 Mr '60. (MIRA 13:6)  
(Zaporosh'ye--Pipelines--Cathodic protection)

ARKHIPOV, S.V.

Experience in operating drainages reinforced by the KSS-3. Gaz.  
prom. 6 no.8:50-52 '61. (MIRA 14:10)  
(Zaporozh'ye---Gas, Natural---Pipelines) (Cathodic protection)

ARKHIFOV, S.V.

Work of the laboratory for protecting gas pipelines from  
corrosion in the "Zaporozhgaz" administration. Gaz. prom.  
9 no.12:24-27 '64.  
(MIRA 18:3)

ARKHIPOV, V., inzh.; ANTONOV, V., inzh.

Special new parts for trolley contact systems. Zhil.-kom. khoz.  
11 no.2:8-9 F '61. (MIRA 14:5)

1. Proyektnaya kontora "Mosgortransproyekt."  
(Trolley buses--Current supply)

STROGANOV, B., motorist (Kalininograd); ARKHIPOV, V., avtomatchik,  
KRAVTSOV, A., rabochiy

About our friends active trade-union workers. Sov. profsoiuzy  
16 no.14:43-44 Jl '60.  
(MIRA 13:8)

1. Staleprokatnyy zavod, Leningrad (for Arkhipov). 2, Beshitskiy  
staleliteynyy zavod, Bryansk (for Kravtsov).  
(Trade unions)

ARKHIPOV, V.

Indonesia is on the road toward strengthening her economy and  
finances. Fin. SSSR 20 no.7:78-85 Jl '59. (MIRA 12:11)  
(Indonesia--Economic conditions)

ARKHIPOV, V.

Demand for Soviet records is growing. Vensh. torg. 42 no.4;  
27-28 '62.  
(Phonorecords) (MIRA 15:4)

BEKLESHOV, D.; ARKHIPOV, V.

Fortieth anniversary of "Mezhdunarodnaia Kniga" Vnesh.torg. 43  
no.4:40-46 '63. (MIRA 16:4)  
(Booksellers and bookelling)

*ARKHIPOV, V. A.*

AUTHOR: Arkhipov, V. A. 89-10-15/36  
TITLE: Determination of the Absolute Intensity of the 2,5 MeV -  $\gamma$ -Line  
of La<sup>140</sup> (Opredeleniye absolyutnoy intensivnosti linii  $\gamma$ - iz-  
lucheniya La<sup>140</sup> s energiyey 2,5 MeV)  
PERIODICAL: Atommaya Energiya, 1957, Vol. 3, Nr 10, pp. 335-336 (USSR)  
ABSTRACT: Neutrons, which form on the occasion of photoeffects in heavy  
hydrogen ( $D(\gamma, u)$ ) - gamma result from a La<sup>140</sup> + Ba<sup>140</sup> preparation  
being in equilibrium) after their deceleration activate Rh or  
Ag foils, the  $\beta$ -activity of which was measured. Subsequently  
measuring of the known results of the same reaction with  $E_{\gamma} = 2,6$   
of Rd Th was carried out. The absolute intensity of the La<sup>140</sup> -  
 $\gamma$ -lines was determined to 0,05 quantum/decay. There are 3 Slavic  
references.  
SUBMITTED: May 20, 1957  
AVAILABLE: Library of Congress

Card 1/1

ARKHIPOV, V.A.

Accumulation of the daughter products during the decay of the mother substance along several branches. Trudy Radiev, inst. AN SSSR 9:250-252 159.

(MIRA 14:6)

(Radioactive substances—Decay)

ARKHIPOV, V.A.; MASHUKOV, P.M.

Flood flow in the Syr Darya River during stoppage in the flow of  
ice. Trudy Sred.-Az.nauch.-issl.gidrometeor.inst. no.7:83-91 '61.  
(MIRA 15:3)

(Syr Darya River—Flood forecasting)  
(Syr Darya River—Ice on rivers, lakes, etc.)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

ARKHIPOV, V.A., kapitan 1-go ranga

Align with the best. Mor. sber. 48 no. 7842-45 Jl '65.  
(MIRA 18:8)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

ARKHIPOV, V. D.

Arkhipov, V. D. "On the problem of reducing the cost of peat," Torf. Prom-st', 1948, No. 12, p. 14-15

SO: U-3264, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

ARKHIPOV, V. D.

19922 ARKHIPOV, V. D.

O khozyaystvennom raschete na torfopred-priyatiyakh. (S primech. red.)

Torf. prom-st; 1949, #6, s. 21-22

So: Letopis Zhurnal Statey, Vol. 27, Moskva, 1949

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1

ARKHINOV, V. D.

"On the Treatment of Acorns With Fungicides", Lesnoye Khoz, No. 1, p 80, 1951.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102110014-1"

ARKHIPOV, V.F.; IL'INYKH, I.P.

Determination of chloropicrin and dichlorethane by means of a modified apparatus. Lab.delo 5 no.6:48-50 N-D '59. (MIRA 13:3)

1. Iz laboratorii Astrakhanskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

(CHLOROPICRIN) (ETHANES)

ARKHIPOV, V.G., inzhener.

Flat-tongued nozzle for plaster sprayer. Mekh.stroi. 4 no.9:20  
S '47. (MLRA 9:2)  
(Plastering) (Nozzles)

VAYNSHTEYN, Daniil Maksovich; ARKHIPOV, V.G., inzh., retsenzent;  
PESOSENNOV, M.N., inzh., retsenzent; DUGINA, N.A., tekhn. red.

[Installation of regulatory and automatic control devices]  
Montazh priborov kontrolia i avtomaticheskogo regulirovaniia;  
spravochnik. Moskva, Mashgiz, 1962. 302 p. (MIRA 15:12)  
(Automatic control)

S/803/62/000/003/010/012  
D201/D308

AUTHORS:

Arkhipov, V.K., Stepanov, B.M. and Turkin, V.M.

TITLE:

The charge storing operation of an oscilloscope tube with the screen energized before recording

SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya yadernymi energeticheskimi ustroystvami, 70-85

TEXT:

The authors give the results of experimental investigation into the -0,0 mode of operation of a CRT. The experiments have shown that qualitative changes of the display are determined basically during the recording process. The results of the experiments are in good agreement with data given in literature. Conclusions: 1) The actual brightness of the display signal is considerably lesser than its theoretically calculated value. 2) The increase in the beam current and in the potential of the potential carrier due to energizing of the screen does not affect substantially the display brightness. This, in turn, restricts the maximum recording speeds.

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The charge storing operation ...

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D201/D308

3) The comparatively small brightness of the signal seems to be due to the small value of the effective secondary emission coefficient. This means that the -0,0 mode of operation is not optimal and should not be recommended for storage of transients of short duration. There are 24 figures.

Card 2/2

S/803/62/000/003/011/012  
D201/D308

AUTHORS:

Arkhipov, V.K. and Stepanov, B.M.

TITLE:

Charge-storing operation of an oscilloscope tube  
with forced removal of secondary emission electrons  
during recording

SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Avtomatika  
i telemekhanika, no. 3, 1962. Sistemy upravleniya  
yadernymi energeticheskimi ustanovkami, 86-102

TEXT:

The authors give the results of an experimental investigation into the 0,-,0 mode of operation of a CRT. The experiments have shown the following advantages of the 0,+ 0 mode over the -0,0 mode: 1) The absolute values of collector voltages and input signal amplitudes being equal, the speed of writing and its brightness is several times greater. 2) The output signal (other conditions being the same) of the 0, + 0 mode increases very nearly linearly with the collector voltage and at 2-3 kV the recording current reaches several micro-ampere, with the recording speed increased

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Charge-storing operation ...

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D201/D308

by more than one order of magnitude as compared with that of the - , 0, 0 mode. The secondary emission properties of the potential carrier are at the same time fully used, the secondary emission coefficient reaching the value of 3 to 4, owing to the suppression of small energy secondary electrons. 3) In the 0, + 0 mode the basic distortion of the signal shape occurs during recording, which makes it easier to design circuits for storage of fast transients. There are 25 figures.

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